INDEX TO ILLUSTRATIONS

American Astronomical Society—
Haverford, Pennsylvania, December 27-30, 1950, Plate I and Key.....58, 59
Washington, D. C., June 20-23, 1951—
Key and Plate (a) 349, 350
Plate (b) and Key 351, 352
Arctic circle, Map showing old 201
Astrometric binary, Sketch showing the location of the measured photocenter of an unresolved 188
Babelsberg Observatory (Berlin) 532
BD + 5° 1668, Diagram showing proper motion and parallax of..... 183
BD + 5° 1668, Diagram showing normal places (1937-1947) of parallactic displacements of 184
Bode, Johann Elert 526
Campbell, Leon 357
Castor, Photograph of 74
Comet Arend (1951 *j*), Photograph of 552
Comet Encke 109
Comet Minkowski 109
Comet 1951 *a* (Padjusakova) 165
Comet 1951 *b* (Arend-Rigaux) 165
Comet 1951 *f* (Kresák) 338
Comet 1951 *i* 450, 451
Co-ordinates of a meteor, Diagram showing determination of..... 537
Diagonal eyepiece for telescope, Photograph of 516
DK Lacertae, Chart of magnitude observations of 222
Eclipse of the moon, Diagram showing 425
Eclipses, Diagram of solar and lunar .....Op. 422
Encke, Johann Franz 526
Erecting solar diagonals, Photographs of 518
Erecting star diagonals, Photographs of 514
Foerster, Wilhelm Julius 529
Gingrich, Curvin Henry .....Op. 343
Graphic time table of the heavens .....Op. 40
Guthnick, Paul 534
Hogg, Frank Scott 173
Interferograms, Photograph of some typical 414
Interferometer, Instrument for the control of a split separation in the..... 412
Interferometer, Photograph of laboratory, with rotating mask 415
Interferometer, Simple 404
Interferometer, The principle of the laboratory 413
Interferometer, Theoretical intensity curve of the fringes caused by an 416
Interferometer attachment for a Repsold micrometer 411
Interferometry, Linear spacing of the fringes in 402
Interferometry, Relative fringe spacing for three wavelengths in..... 406
Interferometry, Theoretical isophotes in 415
Kirch, Christfried 526

Kirch, Gottfried 526
Lalande, Diagram showing displacement curves of the unresolved astronomical binary 249
Light rays—"coherent" and "not coherent" 403
Linearity corrections for photoelectric equipment 365
Linearity tester for photoelectric equipment 363, 364
Magnitudes and colors of stars in the Hyades and Pleiades, Diagram showing relations between absolute 17
Magnitudes and spectral classes of stars, Diagram showing correlation of absolute 15
Magnitudes of B-type stars, Diagram showing correlation of 13
Meteor, The spectrum of a Perseid, of 1949 29
Meteor, Drawing showing photographic density-variation along the path of a 31
Meteorite inclusions and alloys, Hardness tests in 260
Meteorites, Drawings and photographs of.....
.....25, 90, 91, 93, 147, 148, 153, 155, 206, 255, 257, 430, 432
Meteorites, Drawings of a permanent marker showing locations of discovered 99, 100
Meteorites, Photographs of certain features of 259, 264
Milky Way, Diagram of the 503
Moon's orbit, Diagrams showing 456, 457, 459, 462, 463
99 Herculis, Diagram showing proper motion, parallax, and orbital motion of 190
Nova Scorpii 1950, Light curve of 144
Observatory at Encke Square (Berlin) 529
Planetarium, Tin can 119
Planets and moons, Ratios of the periods of 468
R Coronae Borealis, Light curve of, from 1843 to 1951 334
R Scuti, Light curve of, from 1842 to 1951 384
Reflecting elements of a solar diagonal, Drawings of the 519, 521, 522
Refractor, Sproul 24-inch objective, Drawing showing focal curve of 70
SS Cygni, Daily means in 1950 163
Slocum, Lois Trip 502
Solar eclipse locations, Chart showing total 23
Solar system, Semi-logarithmic plot for the 468
Star, Appearance of a, through an unobscured object glass..... 408
Star image drawn into a spectrum by atmospheric dispersion 417
Star sequences, Diagram showing several independent correlations and an apparent general correlation of 18
Struve, Karl Hermann 529
Telescope, Diffraction disc of a 401
Telescopes, Focal ratio and diffraction discs of three 400
Telescopes, Virtual slits used with 406
Variable stars, Chart showing light curves (1941-1951) of ten semi-regular red 488
World, Map of the, as seen from the moon at mid-eclipse..... 304

GENERAL INDEX

Abetti, Giorgio, Galileo, the astronomer 138
Aerolite, The Aba, Japan, a recent meteoritic fall that injured a human being, *Issei Yamamoto* and *S. Murayama* 431
Air almanacs plan joint publication 497
American Association of Variable Star Observers, The spring meeting of the. 281
American Association of Variable Star Observers, Variable Star Notes from the, *Margaret W. Mayall*.....44, 106, 161, 220, 274, 332, 383, 447, 487
American Astronomical Society, The eighty-fourth meeting of the, *Curvin H. Gingrich* 57
American Astronomical Society, The eighty-fifth meeting of the, *C. M. Huffer* 348
Analytical balance—its care and use, The, by William Marshall MacNevin... 229
Andromeda, *C. H. Gingrich* 1
Armitage, Angus, Robert Hooke as an astronomer..... 287
Asteroid notes, *Hugh S. Rice* 42, 104, 224, 268, 327, 381, 481
Astronautics, The Second International Congress on 453
Astronomers, Annual convention of the Western Amateur..... 281
Astronomers, Defense program seeks 496
Astronomers Report, The Atlanta 226
Astronomical fellowships 52
Astronomical illustrations 393
Astronomical League convention 227
Astronomical research now in progress 282
Astronomical Society, The Cleveland.....52, 167, 228, 340, 388
Astronomical Society, The Rittenhouse 111, 167, 340
Astronomical telescopes, Unique attachments for, *F. Keith Dalton,* 511
Astronomical Union, International, news item 227
Astronomical Union General Assembly, International 454
Astronomische Gesellschaft, Contributions of the..... 340
Auroral physics, A conference on 340
Beck, Carl W., Observations on the Toluca, Mexico, meteoritic iron..... 24
Beck, Carl W., The Glorieta Mountain, New Mexico, siderite 151
Beck, Carl W., The La Lande, New Mexico, chondrite 88
Beck, Carl W., The Odessa, Texas, siderite 145
Beiser, Arthur, The law of planet and satellite distance 299
Bell, Raymond M., Recurrence of total solar eclipses 22
Berlin Observatory, The 250th anniversary of the, *Julius Dick* 524
Beta Cephei stars, The problem of the, *Otto Struve* 2
Bok, Bart J., The depths of the Milky Way 501
Buddhue, John Davis, Experiments on the etching of siderites 322

Book reviews—

A History of the Theories of Aether and Electricity, by Sir Edmund Whittaker 555
Astronomisches ABC für Jedermann, by Rolf Müller 284
Borderlands of Science, by Alfred Still 499
British Scientists, by E. J. Holmyard 555

Catalog of 1440 New Variable Stars with Information Concerning the Nature of Their Variation 342
Der Sternenhimmel (1951), by Robert E. Naef 112
Eddington's Principle in Philosophy of Science, by Sir Edmund Whittaker 555
First Course in Probability and Statistics, by J. Neyman 500
Formulae and Directions for Computing the Orbits of Minor Planets and Comets, by Y. Väisälä and L. Oterma 396
Fundamental Constants of Astronomy (Centre National de Recherche Scientifique) 228
H. C. Schumacher and the Observatory at Altona, by Axel Nielsen..... 171
Johannes Kepler, Life and Letters, by Carola Baumgardt 454
Men of Other Planets, by Kenneth Heuer 284
Meteoritic Dust, by John Davis Buddhue 213
Photography in Astronomy, by E. W. H. Selwyn 55
Rockets, Missiles, and Space Travel, by Willy Ley 500
Sterne and Sternsysteme, by Wilhelm Becker 113
The Computation of Elements of Eclipsing Binary Systems, by Zdenek Kopal 395
The Conquest of Space, by Willy Ley 112
The History of Nature, by C. F. von Weizsäcker 170
The New Physics, by Sir C. V. Raman 397
The Nininger Collection of Meteorites, by H. H. Nininger and Addie D. Nininger 56
The Origin of the Earth, by W. M. Smart 397
The Planet Mars, by Gérard de Vaucouleurs 454
Transactions of the International Astronomical Union, Volume VII 170
200 Miles Up, by J. Gordon Vaeth 554

Brand, Edelbert, Regiomontanus 465

Calculating machines in Europe 226
Carolina Bays and the Oriented Lakes of Alaska, The origin of the, *Allan O. Kelly* 199
Carolina Bays, Streamlining of the 539
Chaikin, Gerald L., A transitional hypothesis concerning life on interstellar bodies 50
Chondrite, The Achilles, Rawlins County, Kansas, *H. O. Stockwell* and *Russell A. Morley* 429
Chondrite, the La Lande, New Mexico, *Carl W. Beck, Ralph G. Stevenson, Jr.,* and *Lincoln LaPaz* 88
Clemence, G. M., Remarks on suggested improvements in sunrise-sunset-twilight tables 358
Cohenite and schreibersite, Testing for, *H. H. Nininger* 254
Comet Arend (1951 *j*) 551
Comet, Periodic (Tempel-Swift) 48
Comet Encke 110, 223, 388
Comet Grigg-Skellerup 388
Comet Grigg-Skjellerup (1902 II) 451
Comet Harrington (1951 *k*) 552
Comet Kopff 167
Comet notes, *G. Van Biesbroeck*..... 47, 109, 164, 223, 277, 337, 387, 450, 491, 551
Comet 1925 II (Schwassmann-Wachmann) 166

Comet 1943 *a* (Oterma) . . . 166
Comet 1949 *a* (Johnson) . . . 48, 166
Comet 1950 *a* (D'Arrest) . . . 166
Comet 1950 *a* (Minkowski) . . . 109
Comet 1950 *b* (Minkowski) . . . 48, 166, 277, 553
Comet 1950 *c* (Minkowski) . . . 338, 451
Comet 1950 *c* (Wolf) . . . 166
Comet 1950 *d* (Daniel) . . . 166
Comet 1950 *e* (Encke) . . . 166
Comet 1951 *a* (Pajdusakova) . . . 164, 223, 277
Comet 1951 *b* (Arend-Rigaux) . . . 165, 223, 277
Comet 1951 *c* (Pons-Winnecke) . . . 165
Comet 1951 *e* (Kopff) . . . 337, 553
Comet 1951 *f* (Kresák) . . . 337, 387
Comet 1951 *f* (Tuttle, Giacobini, Kresák) . . . 451
Comet 1951 *g* (Neujmin) . . . 338, 553
Comet 1951 *h* (Comas Sola) . . . 450, 553
Comet 1951 *i* (Wilson-Harrington) . . . 450, 491
Comet Oterma . . . 110
Comet Pons-Winnecke . . . 224
Comet problem, Another look at the, *H. H. Nininger* . . . 195
Comet Schaumasse . . . 388, 552
Comet Schaumasse (1911 VII) . . . 451
Comet Schwassmann-Wachmann Nr. 1 . . . 110
Comet Taylor . . . 224
Comet Tempel . . . 387, 553
Comet Tempel (2) . . . 167, 224
Communications and comments . . . 225, 278
Cuffey, James, Linearity in photoelectric equipment . . . 361
Curvin Henry Gingrich, 1880-1951, *Frederick C. Leonard* . . . 343
Dalton, F. Keith, Unique attachments for astronomical telescopes . . . 511
Death of Dr. Curvin H. Gingrich, *Frederick C. Leonard* . . . 379
Dick, Julius, The 250th anniversary of the Berlin Observatory . . . 524
Double star interferometry, *W. S. Finsen* . . . 399
Dr. Curvin H. Gingrich, Note on the death of, *Charles P. Olivier* . . . 443
Duodecimal Society annual award, The . . . 169
Earth and moon, Leveling effect of land-tide on . . . 278
Eclipse expedition, Surveying for an, *James Hargreaves* . . . 303
Eclipses, A graphical representation of, *Gordon Grant* . . . 419
Eclipsing variables, The card catalogue of . . . 53
Elvey, C. T., A possible meteorite crater near Duckwater, Nye County, Nevada . . . 209
Ephemerides of bright minor planets for 1952 available . . . 553
Farnsworth, Alice H., Summary of sunspot observations at Mount Holyoke College, 1950 . . . 111
Finsen, W. S., Double star interferometry . . . 399
Fireball, A very bright, with an enduring and drifting train, *Mohd. A. R. Khan* 479
Fireball of 1945 July 1, The Oregon . . . 542
Fireball of 1950 September 4, The Massachusetts . . . 543
Fireball of 1950 October 4, The Missouri-Illinois, *Edwin E. Friton* and *C. P. Olivier* . . . 443

Fluid mechanics, Conference on 497
Frank Scott Hogg, 1904-1951, *John F. Heard* 173
Friton, Edwin E., The Missouri-Illinois fireball of 1950 October 4 443
Galaxies, Masses of 497
Galileo, the astronomer, *Giorgio Abetti* 138
Geochimica et Cosmochimica Acta 266
German library for sale 226
General notes.....51, 110, 167, 226, 281, 338, 388, 452, 492, 553
Gingrich, C. H., Andromeda 1
Gingrich, Curvin H., lecture fund established 553
Gingrich, Curvin H., The eighty-fourth meeting of the American Astronomical Society 57
Grant, Gordon, A graphical representation of eclipses 419
Guthrie, D. V., Lines on Sir William Herschel's telescope (verse) 48
Hacker, Sidney G., Possible humanistic aspects of science 231
Hammer, William, Melancthon, inspirer of the study of astronomy..... 308
Hargreaves, James, Surveying for an eclipse expedition 303
Harvard's southern station 394
Heard, John F., Frank Scott Hogg, 1904-1951 173
Heines, Neal J., Mr. Harry B. Rumrill: a tribute..... 262
Henderson, Edward P., A reinvestigation of the Weaver Mountains, Arizona, meteorite 263
Henderson, Edward P., A restudy of the Coolac, New South Wales, Australia, meteorite 205
Herschel's telescope, Lines on Sir William, *D. V. Guthrie* (verse) 48
Hoffleit, Dorrit, The discovery and exploitation of spectroscopic parallaxes... 4
Hoffleit, Dorrit, The "Josiah" and the "Joshua Bates" and the meteoritic dust-shower of November 14, 1856 319
Huffer, C. M., The eighty-fifth meeting of the American Astronomical Society 348
Humanistic aspects of science, Possible, *Sidney G. Hacker* 231
Ilmari Bonsdorff, 1879-1950 452
International Astronomical Union appoints secretary 493
Interstellar bodies, A transitional hypothesis concerning life on, *Gerald L. Chaikin* 50
Kelly, Allan O., The origin of the Carolina Bays and the Oriented Lakes of Alaska 199
Khan, Mohd. A. R., A very bright fireball with an enduring and drifting train 479
LaPaz, Lincoln, A note on the lost Port Orford, Oregon, meteorite..... 101
LaPaz, Lincoln, Applications of autoradiographic, tracer, and other modern nuclear techniques in meteoritics 470
LaPaz, Lincoln, Injuries from falling meteorites 433
LaPaz, Lincoln, The Glorieta Mountain, New Mexico, siderite 151
LaPaz, Lincoln, The La Lande, New Mexico, chondrite 88
LaPaz, Lincoln, The Odessa, Texas, siderite 145
Leon Campbell, 1881-1951, *Margaret W. Mayall* 356
Leonard, Frederick C., Constructional names and symbols for the subclasses in the simplified classification of meteorites 370
Leonard, Frederick C., Contributions of the Meteoritical Society .....
.....24, 88, 145, 205, 263, 319, 370, 429, 470, 536
Leonard, Frederick C., Curvin Henry Gingrich, 1880-1951 343

Leonard, Frederick C., Death of Dr. Curvin H. Gingrich 379
Leonard, Frederick C., Meteoritics: a short editorial 33
Leonard, Frederick C., Nubecula: a general term for a cloudy-looking extragalactic object 261
Leonard, Frederick C., Oxidite or "meteoritic shale," terrestrialization, and terrestrialite 212
Leonard, Frederick C., The total known weight of the Cape York, Greenland, sideritic fall 377
Leonard, Frederick C., The weights of the two largest-known meteorites..... 33
Leonard, Frederick C., and *Gerald L. Rowland*, A catalog of the Leonard Collection of Meteorites 474
Leslie John Comrie, 1893-1950, *Charles H. Smiley* 115

Marshall, O. S., The first optical tube 79
Mayall, Margaret W., Leon Campbell, 1881-1951 356
Mayall, Margaret W., Variable star notes from the American Association of Variable Star Observers.....44, 106, 161, 220, 274, 332, 383, 447, 487, 545
Melancthon, inspirer of the study of astronomy, *William Hammer*..... 308
Meteor notes from the American Meteor Society, *Charles P. Olivier*.....
.....34, 158, 217, 270, 329, 443, 482, 542
Meteor, The determination of the co-ordinates of a, by orthographic projection, *Paul E. Wylie* 536
Meteorite, A note on the lost Port Orford, Oregon, *Lincoln LaPaz*..... 101
Meteorite, A reinvestigation of the Weaver Mountains, Arizona, meteorite, *Edward P. Henderson* and *Stuart H. Perry* 263
Meteorite, A restudy of the Coolac, New South Wales, Australia, *Edward P. Henderson* 205
Meteorite crater near Duckwater, Nye County, Nevada, A possible, *John S. Rinehart* and *C. T. Elvey* 209
Meteorite discoveries, A method for permanently marking the exact locations of, *Russell A. Morley* 98
Meteorites, A catalog of the Leonard Collection of, *Frederick C. Leonard* and *Gerald L. Rowland* 474
Meteorites, Constructional names and symbols for the subclasses in the simplified classification of, *Frederick C. Leonard* 370
Meteorites, Injuries from falling, *Lincoln LaPaz* 433
Meteorites, The weights of the two largest-known, *Frederick C. Leonard*..... 33
Meteoritic craters in relation to the "Carolina Bays," Shape of the Sikhote-Alinsk 225
Meteoritic dust-shower of November 14, 1856, The "Josiah" and the "Joshua Bates" and the, *Dorrit Hoffleit* 319
Meteoritic iron, Observations on the Toluca, Mexico, *Carl W. Beck* 24
Meteoritical Society, Contributions of the, *Frederick C. Leonard* .....
.....24, 88, 145, 205, 263, 319, 370, 429, 470, 536
Meteoritical Society, Notice of the fourteenth meeting of the.....156, 267, 325
Meteoritical Society, Notice of the fifteenth meeting of the 479
Meteoritical Society, Report of the fourteenth meeting of the, *John A. Russell* 439
Meteoritics: A short editorial, *Frederick C. Leonard* 33
Meteoritics, Applications of autoradiographic, tracer, and other modern nuclear techniques in, *Lincoln LaPaz* 470
Meteoritics at the U.C.L.A., The current class in 266
Milky Way, The depths of the, *Bart J. Bok* 501

Minor planet center, The 168
Moon, The (verse) 169
Moon, The motion of the, *Paul E. Wylie* 455
Morley, Russell A., A method for permanently marking the exact locations of meteorite discoveries 98
Morley, Russell A., The Achilles, Rawlins County, Kansas, chondrite 429
Motion pictures as an aid in teaching astronomy—a report 117
Mr. Harry B. Rumrill: a tribute, *Neal J. Heines* 262
Murayama, S., The Aba, Japan, aerolite: a recent meteoritic fall that injured a human being 431

National Bureau of Standards semicentennial 168
National Geographic Society-Palomar Observatory sky survey, The 498
National Science Fair, The second annual 281
Nininger, H. H., Another look at the comet problem 195
Nininger, H. H., Testing for cohenite and schreibersite 254
Nova Herculis 1934 279
Nova Scorpio 1950, Visual observations of, *Domingo Taboada* 144
Novae program, New 392
Nubecula: a general term for a cloudy-looking extragalactic object, *Frederick C. Leonard* 261

Observatory, Ruins of Tycho Brahe's, protected 553
Observatory, The fiftieth anniversary of the Königstuhl 54
Observatory, The Leuschner 453
Occultation predictions 43, 105, 158, 216, 269, 328, 382, 442, 481, 541
Of time—in verse 498
Office of Naval Research, Announcement of the 496
Olivier, Charles P., Meteor notes from the American Meteor Society 34, 158, 217, 270, 329, 443, 482, 542
Olivier, Charles P., Note on the death of Dr. Curvin H. Gingrich 443
Olivier, C. P., The Missouri-Illinois fireball of 1950 October 4 443
Optical tube, The first, *O. S. Marshall* 79
Oriented Lakes of Alaska, The origin of the Carolina Bays and the, *Allan O. Kelly* 199
Oxidite or "meteoritic shale," terrestrialization, and terrestrialite, *Frederick C. Leonard* 212

Perry, Stuart H., A reinvestigation of the Weaver Mountains, Arizona, meteorite 263
Perseid maximum reports, Note on 446
Perseid meteor, The spectrum of a, *John A. Russell* 28
Personal notices 51, 110, 167, 226, 281, 338, 388, 452, 553
Photoelectric equipment, Linearity in, *James Cuffey* 361
Photographic astrometry, Long-focus, *Peter van de Kamp* 65, 129, 176, 243
Planet and satellite distance, The law of, *Arthur Beiser* 299
Planet notes, *Raymond H. Wilson, Jr.* 41, 103, 157, 215, 267, 326, 380, 441, 480, 540
Planetary phenomena in 1951, *Paul S. Watson* 36
Planets and moons, The periods of, *Sidney van den Bergh* 467
Publications received 285

Red-shift law 493
Regiomontanus, *Edelbert Brand* 465
Rice, Hugh S., Asteroid notes 42, 104, 224, 268, 327, 381, 481

Rinehart, John S., A possible meteorite crater near Duckwater, Nye County, Nevada 209
Robert Hooke as a astronomer, *Angus Armitage* 287
Rowland, Gerald L., and *Frederick C. Leonard*, A catalog of the Leonard Collection of Meteorites 474
Rumrill, H. B., The solar faculae 367
Russell, John A., Report on the fourteenth meeting of the Meteoritical Society 439
Russell, John A., The spectrum of a Perseid meteor 28
Satellite of Jupiter, New 498
Schreibersite, Testing for cohenite and, *H. H. Nininger* 254
Siderite, The Glorieta Mountain, New Mexico, *Carl W. Beck, Lincoln LaPaz,* and *Ralph G. Stevenson, Jr.* 151
Siderite, The Odessa, Texas, *Carl W. Beck* and *Lincoln LaPaz* 145
Siderites, Experiments on the etching of, *John Davis Buddhue*..... 322
Sideritic fall, The total known weight of the Cape York, Greenland, *Frederick C. Leonard* 377
Smiley, Charles H., Leslie John Comrie, 1893-1950 115
Smiley, Charles H., Suggested improvements in sunrise-sunset-twilight tables. 192
Solar activity, World-wide observations of 390
Solar eclipses, Recurrence of total, *Raymond M. Bell* 22
Solar faculae, The, *H. B. Rumrill* 367
Spectroscopic parallaxes, The discovery and exploitation of, *Dorrit Hoffleit*... 4
Star pictures which first marked the seasons, On the, *C. C. Wylie*..... 19
Stellar magnitudes of telescopic meteors, The real and apparent, *C. C. Wylie*.. 96
Stevenson, Ralph G., Jr., The Glorieta Mountain, New Mexico, siderite..... 151
Stevenson, Ralph G., Jr., The La Lande, New Mexico, chondrite 88
Stockwell, H. O., The Achilles, Rawlins County, Kansas, chondrite..... 429
Struve, Otto, The problem of the Beta Cephei stars 2
Sun, The conjunction of Venus with the 390
Sunrise-sunset-twilight tables, Remarks on suggested improvements in, *G. M. Clemence* 358
Sunrise-sunset-twilight tables, Suggested improvements in, *Charles H. Smiley* 192
Sunspot groups, Evidence of an apparent relationship between the formation of different 336
Sunspot numbers, Provisional 52, 111, 168, 227, 282, 340, 389, 453, 493, 554
Sunspot observations at Mount Holyoke College, 1950, Summary of, *Alice H. Farnsworth* 111
Synchrocylotron nearing completion 282
Taboada, Domingo, Visual observations of Nova Scorpii 1950 144
Teaching of science, Committee on 53
Tektite areas in Texas, New 538
Terrestrialite, Oxidite or "meteoritic shale," terrestrialization, and, *Frederick C. Leonard* 212
"The Story of Palomar" in Switzerland 492
Van Biesbroeck, G., Comet notes.....47, 109, 164, 223, 277, 337, 387, 450, 491, 551
Van de Kamp, Peter, Long-focus photographic astrometry.....65, 129, 176, 243
Van de Kamp reprints available 453
Van den Bergh, Sidney, The periods of planets and moons 467
Variable star notes from the American Association of Variable Star Observers, *Margaret W. Mayall*.....44, 106, 161, 220, 274, 332, 383, 447, 487, 545
Watson, Paul S., Planetary phenomena in 1951 36

When does a century begin? 341
Wilson, Raymond H., Jr., Planet notes 41, 103, 157, 215, 267, 326, 380, 441, 480, 540
Wylie, C. C., On the star pictures which first marked the seasons 19
Wylie, C. C., The real and apparent stellar magnitudes of telescopic meteors.. 96
Wylie, Paul E., The determination of the co-ordinates of a meteor by orthographic projection 536
Wylie, Paul E., The motion of the moon..... 455
Yamamoto, Issei, The Aba, Japan, aerolite: a recent meteoritic fall that injured a human being 431